May 27, 2022.

Steven T. Petrucelli Enforcement Officer RCRA Compliance Branch USEPA Region 2 290 Broadway 21st Floor New York, NY 10007-0587 By email to petrucelli.steven@epa.gov

RE:

CAA SEMIANNUAL REPORT UNITED STATES V. LANDFILL TECHNOLOGIES OF ARECIBO, CORP. CONSENT DECREE CIVIL NO. 3:14-CV-01438;

DOJ CASE NO. 90-5-2-1-09629.

Dear Mr. Petrucelli:

Pursuant to Section VI, CAA Injunctive Relief, of the Consent Decree Civil No. 3:14-cv-01438, Landfill Technologies of Arecibo, LLC¹ (LTA), submits the following information:

- 1. Calibrations of the equipment used to monitor data. Exhibit 1.
- 2. Surface Methane Gas Monitoring, Quarterly Event Report: July to December 2021. *Exhibit* 2

¹ Previously, Landfill Technologies of Arecibo, Corp.

- 3. Monthly Monitoring, Gas Extraction Wells: July to December 2021. Exhibit 3.
- 4. Start Up, Shut Down and Malfunction Report: July to December 2021. Exhibit 4.

If additional information is required, please don't hesitate to contact LTA at your convince at 787-273-7639 or via email, Javier Vázquez, Esq. jvazquez@landfillpr.com.

Best Regards,

Javier J. Vazquez Bravo, ESQ. Vice-president of Operations

Cc. United States Department of Justice,
Chief Environmental Enforcement Section
Donald Frankel
Via email Donald.frankel@usdoj.gov

EPA, CAA

EPA RCRA, Carl Plössl;

EPA ORC, Carolina Jordan-Garcia, Esq. Via email jordan-garcia.carolina@epa.gov

EQB, Eng. Luis Sierra

PRLA, Alberto L. Ramos.

Arecibo Municipality Mayor

EXHIBIT 1



Certifications of Calibration

CERTIFICATION OF CALIBRATION





No. 66916

Date Of Calibration: 29-Oct-2020

Certificate Number: G503692_9/40321

Issued by: QED Environmental Systems Inc.

Customer:

DIAMOND SCIENTIFIC

PO BOX 348 MIMS, FL 32754 USA

Description:

Landtec Gas Analyzer

Model:

GEM5000

Serial Number:

G503692

Accredited Results:

Methane (CH4)

	Methane (Ch4)		-
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)	
5.0	4.8	0.42	
15.0	14.8	0.66	- 1
50.0	49.7	1.03	- 1

	Carbon Dioxide (CO2)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)	
4.9	4.9	0.43	
15.0	14.9	0.71	
50.0	50.1	1.19	

	Oxygen (O2)	
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.9	21.0	0.25

Gas cylinders are traceable and details can be provided if requested.

CH4, CO2 readings recorded at:

30.9 °C/87.7 °F

Barometric Pressure: 0977"Hg/28.86 "Hg

O2 readings recorded at:

21.5 °C/70.7 °F

Method of Test: The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 107

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www.qedenv.com

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CERTIFICATION OF CALIBRATION





No. 66916

Date Of Calibration: 29-Oct-2020

Certificate Number: G503692_9/40321

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Pressure Transducers (inches of water column)						
Transducer	Certified (Low)	Reading (Low)	Certified (High)	Reading (High)	Accuracy	
Static	0"	0"	40"	40.12"	2.0"	
Differential	0"	0"	4"	4.00"	0.7"	

Baromet	ter (mbar)
Reference	Instrument Reading
0977 mbar / 28.86 "Hg	0978 mbar / 28.88 "Hg

As received gas check readings:

Methan	e (CH4)
Certified Gas (%)	Instrument Reading (%)
5.0	5.4
15.0	15.6
50.0	49.0

Carbon D	ioxide (CO2)
Certified Gas (%)	instrument Reading (%)
4.9	5.2
15.0	15.4
50.0	51.0

Оху	gen (O2)
Certified Gas (%)	Instrument Reading (%)
20.9	19.7

As received Gas readings recorded at:

30.9 °C/87.7 °F

As received Barometric Pressure recorded at:

21.5 °C/70.7 °F

As received gas check readings are only recorded if the instrument is received in a working condition. Where the instrument is received damaged no reading can be taken.

Date of Issue: 30 Oct 2020

Approved By Signatory

Thakrah Alshaaban

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 107

IGC Instance: 107

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CERTIFICATION OF CALIBRATION





No. 66916

Date Of Calibration: 08-Jan-2021

Issued by: QED Environmental Systems Inc.

Certificate Number: G501950_10/40776

Customer:

Diamond Scientific

PO BOX 348 Mims, FL 32754 USA

Description:

Landtec Gas Analyzer

Model:

GEM5000

Serial Number:

G501950

Accredited Results:

Methane (CH4)

	Wictiano (Ciri)	
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.42
15.0	14.9	0.66
50.0	49.5	1.03

Carbon Dioxide (CO2)			
Certified Gas (%)	Instrument Reading (%)	ling (%) Uncertainty (%)	
4.9	4.7	0.43	
15.0	14.6	0.71	
50.0	49.9	1.19	

	Oxygen (O2)	
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.9	21.0	0.25

Gas cylinders are traceable and details can be provided if requested.

CH4, CO2 readings recorded at:

31.1 °C/87.9 °F

Barometric Pressure: 0988"Hg/29.19 "Hg

O2 readings recorded at:

21.6 °C/70.9 °F

Method of Test: The analyzer is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure ISP17.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST requirements.

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 108

IGC Instance: 108

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CERTIFICATION OF CALIBRATION





Date Of Calibration: 08-Jan-2021

Certificate Number: G501950_10/40776

Issued by: QED Environmental Systems Inc.

Non Accredited results:

Pressure Transducers (inches of water column)					
Transducer	Certified (Low)	Reading (Low)	Certified (High)	Reading (High)	Accuracy
Static	0"	0"	40"	40.06"	2.0"
Differential	0"	0"	4"	4.01"	0.7"

Barome	ter (mbar)
Reference	Instrument Reading
0988 mbar / 29.19 "Hg	0988 mbar / 29.17 "Hg

As received gas check readings:

Methane (CH4)		
Certified Gas (%)	Instrument Reading (%)	
5.0	4.4	
15.0	14.1	
50.0	49.4	

Carbon D	ioxide (CO2)
Certified Gas (%)	Instrument Reading (%)
4.9	5.2
15.0	15.2
50.0	49.6

Oxygen (O2)		
Certified Gas (%)	Instrument Reading (%)	
20.9	18.8	

As received Gas readings recorded at:

31.1 °C/87.9 °F

As received Barometric Pressure recorded at:

21.6 °C/70.9 °F

As received gas check readings are only recorded if the instrument is received in a working condition.

Where the instrument is received damaged no reading can be taken.

Date of Issue: 11 Jan 2021

Approved By Signatory

Kyle Racine

Laboratory Inspection

The calibration results published in this certificate were obtained using equipment capable of producing results that are traceable through NIST to the International System of Units (SI). Certification only applies to results shown. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance: 108

IGC Instance: 108

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